Notice of Allowability	Application No.	Applicant(s)
	10/656,515	TEFFT ET AL.
	Examiner	Art Unit
	Brian J. Sines	1743
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. X This communication is responsive to the response filed 2/27/2006.		
2.  The allowed claim(s) is/are <u>1-12 and 14-19</u> .		
<ul> <li>3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
<ul> <li>5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.</li> <li>(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached</li> <li>1) hereto or 2) to Paper No./Mail Date</li> <li>(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date</li> <li>Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).</li> </ul>		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s)  1. Notice of References Cited (PTO-892)  2. Notice of Draftperson's Patent Drawing Review (PTO-948)  3. Information Disclosure Statements (PTO-1449 or PTO/SB/O Paper No./Mail Date  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Dat 98), 7. ☑ Examiner's Amendr	te

## **DETAILED ACTION**

## Terminal Disclaimer

The terminal disclaimer filed on 2/27/2006 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of U.S. Pat. No. 6,623,975 B1 has been reviewed and is accepted. The terminal disclaimer has been recorded.

## Allowable Subject Matter

Claims 1 - 12 and 14 - 19 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claim 1, the cited prior art neither teach nor fairly suggest a method for determining a mass of a pollutant in an emissions sample obtained from a particular vehicle, comprising the steps of: extracting the emissions sample from the particular vehicle as it is operated over a testing period comprised of one or more discrete time intervals; determining instantaneous fuel consumption of the particular vehicle; calculating an exhaust flow rate based on the instantaneous fuel consumption of the particular vehicle at each discrete time interval; analyzing the emissions sample extracted from the particular vehicle to measure the concentration of the pollutant in the sample at each discrete time interval; and determining the mass of the pollutant at each discrete time interval by multiplying the exhaust flow rate by the measured concentration of the pollutant by a known density of the pollutant.

Regarding claim 12, the cited prior art neither teach nor fairly suggest a method for determining a mass of a pollutant in an emissions sample obtained from a particular vehicle, comprising the steps of: measuring a velocity and acceleration rate of the particular vehicle over a testing period comprised of one or more discrete time intervals; measuring a concentration of

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the pollutant in the emissions sample at each discrete time interval; calculating a total drive wheelpower demand at each discrete time interval based on the velocity, acceleration rate and certain physical characteristic of the particular vehicle; determining an engine load and an engine speed based on the total drive wheel power demand; determining the instantaneous fuel consumption of the particular vehicle; calculating an exhaust flow rate based on the instantaneous fuel consumption of the particular vehicle at each discrete time interval; and converting measured pollutant concentration into pollutant mass at each discrete time interval by multiplying the exhaust flow rate by the measured concentration of the pollutant by a known density of the pollutant.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brian J. Sines whose telephone number is (571) 272-1263. The examiner can normally be reached on Monday - Friday (11 AM - 8 PM EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill A. Warden can be reached on (571) 272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Supervisory Patent Examiner Technology Center 1700